

Claims

I claim:

[C1] A multipurpose anchor system for securing loads in a transport vehicle comprising:

an anchor fitting attached to a vehicle having

a front surface with a clearance cavity disposed about a receiving section adapted to receive a first securement connector,

an aperture within said front surface adapted to receive a second securement connector,

a back contoured surface, adapted to catch said second securement connector being received by said aperture; and

a flexible tensile member having a first end, one of said first and second securement connectors being affixed to said tensile member at said first and end in cooperation with said anchor fitting.

[C2] The anchor system of claim 1 wherein said first securement connector being selected from the group consisting of a hook, a clip, a pin, a woven strap, and a metal binding.

[C3] The anchor system of claim 1 wherein said second securement connector is comprised of a pin.

[C4] The anchor system of claim 3 wherein said pin is comprised of:

a pin body having a first pin end and a second pin end;

a first pin collar proximate to said first pin end; and

a second pin collar proximate to said second pin end,

wherein said flexible tensile member is positioned around said pin between said first and second pin collars and wherein said first and second pin collars align said flexible tensile member within said aperture.

[C5] The anchor system of claim 1 wherein said anchor fitting is substantially flush mountable to an inside surface of a vehicle.

[C6] The anchor system of claim 5 wherein said inside surface being selected from the group of vehicle wall and vehicle floor.

[C7] The anchor system of claim 5 wherein said anchor is adapted to be attached to a vehicle frame in a pocket within said inside vehicle surface so said front surface of the anchor is substantially flush with said inside vehicle surface.

[C8] The anchor system of claim 7 wherein said anchor is attached to a vehicle comprising a railcar.

[C9] The anchor system of claim 1 wherein said flexible tensile member being selected from the group consisting of a woven synthetic fiber strap, a metal band and a metal strap.

[C10] An anchor fitting for attachment to a vehicle comprising:  
a front surface having a receiving section adapted to receive a securement connector, a clearance cavity disposed about said receiving section and a securement aperture adapted to receive an anchor pin, said anchor pin being affixed to a first end of a flexible tensile member;  
adjacent said front surface, a top edge, a right edge, a bottom edge, and a left edge, which interface with a vehicle support member; and  
a back contoured surface adapted to cooperate with said anchor pin, securing said flexible tensile member.

[C11] The anchor fitting of claim 10 wherein said receiving section and said aperture are aligned vertically.

[C12] The anchor fitting of claim 10 wherein said receiving section and said aperture are aligned horizontally.

[C13] The anchor fitting of claim 10 wherein said receiving section and said anchor section are offset vertically and horizontally.

[C14] The anchor fitting of claim 10 wherein said receiving section and said back contoured surface are free of edges which may cut into said flexible tensile member.

[C15] The anchor fitting of claim 14 wherein said anchor fitting is adapted to be attached to said vehicle support member in a pocket within an inside vehicle surface so said front surface of the anchor fitting is substantially flush with said inside vehicle surface.

[C16] A multipurpose anchor system for securing loads in a transport vehicle comprising:  
an anchor fitting for attachment to a railcar comprising

a front surface having a receiving section adapted to receive a securing connector selected from the group consisting of a hook, a clip, a pin, a woven strap, and a metal binding, and a clearance cavity disposed about said receiving section,

a securing aperture adapted to receive an anchor pin,

adjacent said front surface, a top edge, a right edge, a bottom edge, and a left edge, which interface with a railcar support member for substantially flush mounting of said anchor fitting to an inside surface of said railcar, and

a back contoured surface adapted to cooperate with and secure said anchor pin; and

a flexible tensile member having a first end, one of said securing connector and said pin being affixed to said tensile member at said first end in cooperation with one of said receiving section and said aperture.

[C17] The anchor system of claim 16 wherein said anchor is adapted to be attached to a vehicle frame in a pocket within said inside vehicle surface so said front surface of the anchor is substantially flush with said inside vehicle surface.

[C18] The anchor system of claim 17 wherein said inside surface being selected from the group of vehicle wall and vehicle floor.

[C19] The anchor system of claim 16 wherein said anchor pin is comprised of:  
a pin body having a first pin end and a second pin end;  
a first pin collar proximate to said first pin end; and  
a second pin collar proximate to said second pin end,

wherein said flexible tensile member is positioned between said first and second pin collars and wherein said first and second pin collars align said flexible tensile member within said aperture.

[C20] The anchor system of claim 16 further comprising:

a first flexible tensile member having a first end, said securing connector being affixed to said first end, wherein said securing connector is in cooperation with said receiving section; and

a second flexible tensile member having a second end, said anchor pin being affixed to said second end, wherein said anchor pin is secured in cooperation with said back contoured surface.